

DERWENT-ACC-NO: 1993-294550

DERWENT-WEEK: 199337

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TITLE: Sediment removal from filter cartridges -
includes cleaning by scrapers connected to springs and
washing in counterflow at increased temp.

INVENTOR: BOROVSKII, A P; SINITSA, I T

PATENT-ASSIGNEE: DONTEKHENERGO PRODN ASSOC[DONTR]

PRIORITY-DATA: 1988SU-4422054 (May 24, 1988)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
SU 1764670 A1	September 30, 1992	N/A
005 B01D 024/46		

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
SU 1764670A1	N/A	1988SU-4422054
May 24, 1988		

INT-CL (IPC): B01D024/46

ABSTRACTED-PUB-NO: SU 1764670A

BASIC-ABSTRACT:

The process includes mechanical cleaning by scraper elements connected to spring elements and simultaneous washing in counterflow at temp. higher than the filtration temp., and then at temp. equal to or lower than that. The device contains cartridges (1), scrapers (2) connected to springs (3, 4), and board (5). The springs are made of alloy 'nitinol' contg. 54.5% nickel and titanium the rest; the material has form memory and martensite transition in the range 40-80 deg. C, and is specially pretreated. This can be a

part of
filter contg. body (6), partition dividing body into chamber (7) and
lower
output chamber (8), perforated partition (9) forming conic space
(10), input
pipe (11), output pipe (12) for sediment, bottom outlet (13) for
filtrate, and
additional outlet (14) for sediment.

Input suspension enters the conic space and through perforations goes
into
upper chamber, then through cartridges; on their outer surfaces a
layer of
powdered ionic substance is formed, and purified water from inner
hollows of
cartridges goes into output chamber.

USE/ADVANTAGE - In sorption filters for deep desalination and
purificn. of
water contg. corrosion prods. The reliability and effectiveness are
increased,
and the device construction simplified. Bul.36/30.9.92.

CHOSEN-DRAWING: Dwg.1/4

TITLE-TERMS: SEDIMENT REMOVE FILTER CARTRIDGE CLEAN SCRAPE CONNECT
SPRING

WASHING COUNTERFLOW INCREASE TEMPERATURE

DERWENT-CLASS: D15 J01

CPI-CODES: D04-A01F; J01-F02B; J01-H;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1993-130702

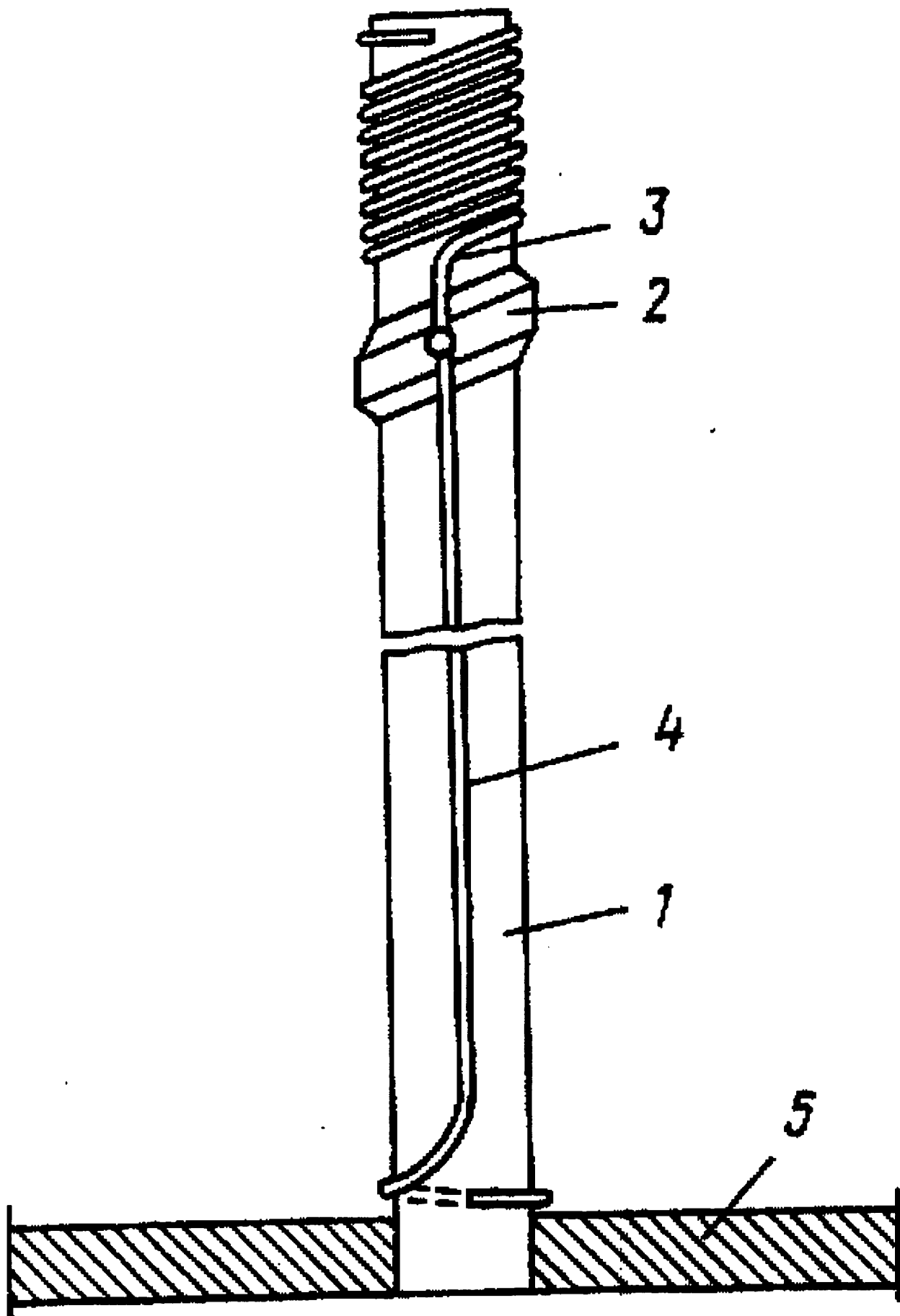


Figure 1